To: CampusGuard(kstaples@campusguard.com)

Subject: U.S. Trademark Application Serial No. 97777513 - REDLENS INFOSEC

**Sent:** November 01, 2023 07:41:30 PM EDT

**Sent As:** tmng.notices@uspto.gov

### **Attachments**

7165721 5696063

screencapture-encyclopedia2-thefreedictionary-com-infosec-16988691083961 screencapture-encyclopedia2-thefreedictionary-com-information-security-16988691820401 screencapture-en-wikipedia-org-wiki-Information\_security-16988692644361

# United States Patent and Trademark Office (USPTO) Office Action (Official Letter) About Applicant's Trademark Application

U.S. Application Serial No. 97777513

Mark: REDLENS INFOSEC

Correspondence Address: CAMPUSGUARD 121 SOUTH 13TH STREET LINCOLN NE 68508 UNITED STATES

Applicant: CampusGuard

Reference/Docket No. N/A

Correspondence Email Address: kstaples@campusguard.com

# NONFINAL OFFICE ACTION

**Response deadline.** File a response to this nonfinal Office action within three months of the "Issue date" below to avoid <u>abandonment</u> of the application. Review the Office action and respond using one of the links to the appropriate electronic forms in the "How to respond" section below.

**Request an extension.** For a fee, applicant may <u>request one three-month extension</u> of the response deadline prior to filing a response. The request must be filed within three months of the "Issue date" below. If the extension request is granted, the USPTO must receive applicant's response to this letter within six months of the "Issue date" to avoid abandonment of the application.

**Issue date:** November 1, 2023

**How to respond.** File a <u>response form to this nonfinal Office action</u> or file a <u>request form for an</u> extension of time to file a response.

\* \* \* \* \*

The referenced application has been reviewed by the assigned trademark examining attorney. Applicant must respond timely and completely to the issue(s) below. 15 U.S.C. §1062(b); 37 C.F.R. §§2.62(a), 2.65(a); TMEP §§711, 718.03.

# SEARCH OF USPTO DATABASE OF MARKS (Advisory)

The trademark examining attorney has searched the USPTO database of registered and pending marks and has found no conflicting marks that would bar registration under Trademark Act Section 2(d). 15 U.S.C. §1052(d); TMEP §704.02.

Applicant must respond to the requirement(s) set forth below.

# **DISCLAIMER REQUIRED**

Applicant must disclaim the wording "INFOSEC" because it is merely descriptive of an ingredient, quality, characteristic, function, feature, purpose, or use of applicant's goods and/or services. *See* 15 U.S.C. §§1052(e)(1), 1056(a); *DuoProSS Meditech Corp. v. Inviro Med. Devices, Ltd.*, 695 F.3d 1247, 1251, 103 USPQ2d 1753, 1755 (Fed. Cir. 2012); TMEP §§1213, 1213.03(a).

The term INFOSEC is short for "Information security" and "is the practice of protecting information by mitigating information risks." See attached definitions. Here, the wording describes the services which are in the field of information security or for information security. The Office has required the disclaimer of other marks comprising of INFOSEC for similar goods or services. See attached U.S. Registrations.

Applicant may respond to this issue by submitting a disclaimer in the following format:

# No claim is made to the exclusive right to use "INFOSEC" apart from the mark as shown.

For an overview of disclaimers and instructions on how to provide one using the Trademark Electronic Application System (TEAS), see the Disclaimer webpage.

A "disclaimer" is a statement in the application record that an applicant does not claim exclusive rights to an unregistrable component of the mark. *See Schwarzkopf v. John H. Breck, Inc.*, 340 F.2d 978, 979-80, 144 USPQ 433, 433 (C.C.P.A. 1965); TMEP §1213. A disclaimer does not physically remove the

disclaimed matter from the mark or otherwise affect the appearance of the mark. *See Schwarzkopf v. John H. Breck, Inc.*, 340 F.2d at 979, 144 USPQ2d at 433; TMEP §1213.

If applicant does not provide the required disclaimer, the USPTO may refuse to register the entire mark. *See In re Stereotaxis Inc.*, 429 F.3d 1039, 1041, 77 USPQ2d 1087, 1089 (Fed. Cir. 2005); TMEP §1213.01(b).

# **IDENTIFICATION AND CLASSIFICATION**

Applicant has provided the following identification and classification of goods and/ or services in its application:

International Class 042: We provide cybersecurity and compliance services such as pen testing, PCI compliance, security awareness training, IT security consulting service, etc

The identification of services is unacceptable as indefinite because it is too broad and could include services in other international classes and must be clarified. See 37 C.F.R. §2.32(a)(6); TMEP §§1402.01, 1402.03. Applicant must amend the identification to specify the common commercial or generic name of the services. See TMEP §1402.01. If the services have no common commercial or generic name, applicant must describe or explain the nature of the services using clear and succinct language. See id.

The wording "etc" in the identification of services is indefinite and must be clarified because it fails to identify specific services. *See* TMEP §1402.03(a). Therefore, applicant must delete this indefinite wording from the identification and specify the common commercial or generic name for these services.

In an identification, an applicant must use the common commercial or generic name for the services, be specific and all-inclusive, and avoid using indefinite words or phrases. TMEP §§1402.01, 1402.03(a). Further, applicant may amend the identification to list only those items that are within the scope of the services set forth in the initial application or as acceptably amended. *See* 37 C.F.R. §2.71(a); TMEP §§1402.06 *et seq.*, 1402.07. Scope is generally determined by the ordinary meaning of the wording in the identification. TMEP §1402.07(a).

The Trademark Act requires that a trademark or service mark application must include a "**specification** of ... the goods [or services]" in connection with which the mark is being used or will be used. 15 U.S.C. §1051(a)(2) (emphasis added), (b)(2) (emphasis added); *see* 15 U.S.C. §1053. Specifically, a complete application must include a "list of the **particular** goods or services on or in connection with which the applicant uses or intends to use the mark." 37 C.F.R. §2.32(a)(6) (emphasis added). This requirement for a specification of the particular goods and/or services applies to applications filed under all statutory bases. *See* 15 U.S.C. §§1051(a)(2), 1051(b)(2), 1053, 1126(d)-(e), 1141f; 37 C.F.R. §2.32(a)(6); TMEP §§1402.01, 1402.01(b)-(c).

The USPTO has the discretion to determine the degree of particularity needed to clearly identify goods and/or services covered by a mark. *In re SICPA Holding*, 2021 USPQ2d 613, at \*4 (TTAB 2021) (quoting *In re Omega SA*, 494 F.3d 1362, 1365, 83 USPQ2d 1541, 1543-44 (Fed. Cir. 2007)). Accordingly, the USPTO requires the description of goods and/or services in a U.S. application to be

specific, definite, clear, accurate, and concise. *In re tapio GmbH*, 2020 USPQ2d 11387, at \*6 (TTAB 2020) (quoting *In re Cordua Rests., Inc.*, 823 F.3d 594, 605, 118 USPQ2d 1632, 1639 (Fed. Cir. 2016)); TMEP §1402.01.

Applicant may adopt the following identification, if accurate:

- Training services in the field of cybersecurity awareness (INT. CLASS 41)
- Data security consultancy; IT cybersecurity consulting service; Computer security consultancy to
  identify security weaknesses and vulnerabilities across enterprises and to assist in remediating
  any security deficiencies through penetration testing, payment card industry (PCI) compliance,
  vulnerability assessments, password auditing, and cyberattack simulation (INT. CLASS 42)

<u>Amendment of Classification Advisory:</u> If applicant adopts the suggested amendment of the identification of goods and/or services, then applicant must amend the classification to <u>add</u> International Class(es) 41. *See* 37 C.F.R. §§2.32(a)(7), 2.85; TMEP §§805, 1401.

**Scope Advisory:** Applicant's goods and/or services may be clarified or limited, but may not be expanded beyond those originally itemized in the application or as acceptably amended. *See* 37 C.F.R. §2.71(a); TMEP §1402.06. Applicant may clarify or limit the identification by inserting qualifying language or deleting items to result in a more specific identification; however, applicant may not substitute different goods and/or services or add goods and/or services not found or encompassed by those in the original application or as acceptably amended. *See* TMEP §1402.06(a)-(b). The scope of the goods and/or services sets the outer limit for any changes to the identification and is generally determined by the ordinary meaning of the wording in the identification. TMEP §\$1402.06(b), 1402.07(a)-(b). Any acceptable changes to the goods and/or services will further limit scope, and once goods and/or services are deleted, they are not permitted to be reinserted. TMEP §1402.07(e).

For assistance with identifying and classifying goods and services in trademark applications, please see the USPTO's online searchable *U.S. Acceptable Identification of Goods and Services Manual. See* TMEP §1402.04.

# **MULTIPLE - CLASS APPLICATION REQUIREMENTS**

The application identifies goods and/or services in more than one international class; therefore, applicant must satisfy all the requirements below for each international class based on Trademark Act Section 1(b):

(1) List the goods and/or services by their international class number in consecutive numerical order, starting with the lowest numbered class.

(2) Submit a filing fee for each international class not covered by the fee(s) already paid (view the USPTO's current fee schedule). The application identifies goods and/or services that are classified in at least 2 classes; however, applicant submitted a fee(s) sufficient for only 1 class(es). Applicant must either submit the filing fees for the classes not covered by the submitted fees or restrict the application to the number of classes covered by the fees already paid.

See 37 C.F.R. §2.86(a); TMEP §§1403.01, 1403.02(c).

For an overview of the requirements for multiple-class application and how to satisfy the requirements online using the Trademark Electronic Application System (TEAS) form, see the Multiple-class Application webpage.

# PERSONS WHO CAN SIGN RESPONSES - Advisory

**Persons who can properly sign responses.** If an applicant is not represented by a U.S.-licensed attorney qualified under 37 C.F.R. §11.14, the response must be signed by the individual applicant or someone with legal authority to bind a juristic applicant (e.g., a corporate officer or general partner). *See* 37 C.F.R. §2.193(e)(2)(ii); TMEP §611.03(b). In the case of joint applicants, all must sign. 37 C.F.R. §2.193(e)(2)(ii); TMEP §611.06(a).

TMEP §611.06(g) provides the following regarding signature by Limited Liability Company: A limited liability company ("LLC") has attributes of both a corporation and a partnership. See TMEP §803.03(h). Generally, a signatory identified as "manager," "member," "principal," or "owner" may be presumed to have the authority to sign on behalf of a domestic or foreign limited liability company. In addition, anyone with a corporate-officer-type title, such as "President" or "Chief Executive Officer," may sign.

If an applicant is represented by a U.S.-licensed attorney qualified under 37 C.F.R. §11.14, the attorney must sign the response. 37 C.F.R. §2.193(e)(2)(i); TMEP §611.03(b). The only attorneys who may sign responses are (1) attorneys in good standing with a bar of the highest court of any U.S. state or territory, or (2) Canadian trademark attorneys or agents reciprocally recognized by the USPTO's Office of Enrollment and Discipline (OED) to represent applicants located in Canada and who are working under a qualified U.S.-licensed attorney. See 37 C.F.R. §§2.17(a), 11.14(a), (c), (e); TMEP §602. Foreign attorneys, other than recognized Canadian trademark attorneys or agents, do not have authority to sign responses. See 37 C.F.R. §§2.17(e), 11.14(c)(1), (e); TMEP §602.03-.03(a).

In all cases, the signer's first and last name and title or position must be specified immediately below or adjacent to the signature. 37 C.F.R. §2.193(d); TMEP §611.01(b).

# **CLOSING**

Because of the legal technicalities and strict deadlines of the trademark application process, applicant is encouraged to hire a private attorney who specializes in trademark matters to assist in this process. See Hiring a U.S.-licensed trademark attorney for more information. USPTO staff cannot provide legal advice or statements about an applicant's legal rights. TMEP §§705.02, 709.06. The assigned trademark examining attorney can provide only limited assistance explaining the content of an Office action and the application process. For general questions and status inquiries, please contact the Trademark Assistance Center at (800) 786-9199. https://www.uspto.gov/learning-and-resources/support-centers/trademark-assistance-center

Informal communications may not be used to request advisory opinions as to the likelihood of overcoming a substantive refusal. The examining attorney should advise the applicant to file a formal response for consideration of arguments regarding any substantive refusal. TMEP §709.05. For a legal opinion about any trademark matter, a party must consult a private trademark attorney. TMEP §1805.

**Response guidelines**. For this application to proceed, applicant must explicitly address each refusal and/or requirement in this Office action. For a refusal, applicant may provide written arguments and evidence against the refusal, and may have other response options if specified above. For a requirement, applicant should set forth the changes or statements. Please see "Responding to Office Actions" and the informational video "Response to Office Action" for more information and tips on responding.

NOTE: If applicant requires assistance navigating the online response form, applicant should contact the Trademark Assistance Center at (800) 786-9199.

/Benji Paradewelai/ Trademark Examining Attorney USPTO, Law Office 101 (571) 272-1658 Benji.Paradewelai@USPTO.GOV

# **RESPONSE GUIDANCE**

• Missing the deadline for responding to this letter will cause the application to <u>abandon</u>. A response or extension request must be received by the USPTO before 11:59 p.m. Eastern Time of the last day of the response deadline. Trademark Electronic Application System (TEAS) <u>system availability</u> could affect an applicant's ability to timely respond. For help resolving technical issues with TEAS, email <u>TEAS@uspto.gov</u>.

- Responses signed by an unauthorized party are not accepted and can cause the application to abandon. If applicant does not have an attorney, the response must be signed by the individual applicant, all joint applicants, or someone with legal authority to bind a juristic applicant. If applicant has an attorney, the response must be signed by the attorney.
- If needed, **find contact information for the supervisor** of the office or unit listed in the signature block.

# Hudson Infosec

Word Mark HUDSON INFOSEC

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IC 042 US 101 100

Goods/Services Technology consultation in the field of cyber security including conducting

cybersecurity auditing; cloud data migration services and software development

related thereto.

**Register** PRINCIPAL

Serial Number 97248054

**Filing Date** 2022-02-01T00:00:00

Original Filing Basis 1b

**Current Filing Basis** 1a

**Publication Date** 2022-12-20

**Registration Number** 7165721

**Date Registered** 2023-09-12

(REGISTRANT) Hudson Infosec LLC (LIMITED LIABILITY COMPANY;

Owner NEW YORK); 1 Crestwood Blvd, Poughkeepsie, NEW YORK 12603,

**UNITED STATES** 

**Type of Mark** SERVICE MARK

Mark Drawing Code (4) STANDARD CHARACTER MARK

Disclaimer "INFOSEC"

Live Dead Indicator LIVE

**Status** REGISTERED

**Print:** November 1, 2023 11:48 AM



# Word Mark

# BERYLLIUM INFOSEC COLLABORATIVE

•

# IC 042 US 101 100

Consulting in the field of information technology; Computer security consultancy in the field of scanning and penetration testing of computers and networks to assess information security vulnerability; Computer services, namely, acting as an application service provider in the field of information management to host computer application software for the purpose of securing company or US government sensitive but unclassified information; Computer services, namely, cloud hosting provider services; Computer software consulting; Development of security systems and contingency planning for information systems; Development of customized software for others for use in risk assessment, information security, business analysis, audit and audit planning, and sales management; Information technology consulting services; IT consulting services; Outsource service provider in the field of information technology consulting; Providing a website that features technology that enables the secure exchange of information by users; Software as a service (SAAS) services, namely, hosting software for use by others for use in securely storing, manipulating and transmitting sensitive information.; Technical support services, namely, remote administration and management of in-house and hosted datacenter devices, databases and software applications.

**Goods/Services** 

**Register** PRINCIPAL

Serial Number 88032349

**Filing Date** 2018-07-10T00:00:00

**Original Filing Basis** 1a

**Current Filing Basis** 1a

**Publication Date** 2018-12-25

**Registration Number** 5696063

Date Registered 2019-03-12

• (REGISTRANT) Beryllium, LLC (LIMITED LIABILITY COMPANY; MINNESOTA); Suite 210, 715 Florida Ave S, Minneapolis, MINNESOTA 55426, UNITED STATES

Owner

• (LAST LISTED OWNER) BERYLLIUM INFOSEC, INC. (CORPORATION; DELAWARE); 715 FLORIDA AVENUE S, SUITE 210, MINNEAPOLIS, MINNESOTA 55426, UNITED STATES

Type of Mark SERVICE MARK

(3) DESIGN PLUS WORDS, LETTERS, AND/OR NUMBERS **Mark Drawing Code** 

**Design Code** 260113, 260121, 261503

• The color(s) green, and dark blue is/are claimed as a feature of the mark.

• The mark consists of a green hexagonal outline surrounding the dark blue capital letters, "BERYLLIUM". The base of the hexagonal outline is broken by two dark blue nodes interrupted by the words, "InfoSec Collaborative" in

dark blue letters.

**Disclaimer** "INFOSEC" AND "COLLABORATIVE"

**Live Dead Indicator** LIVE

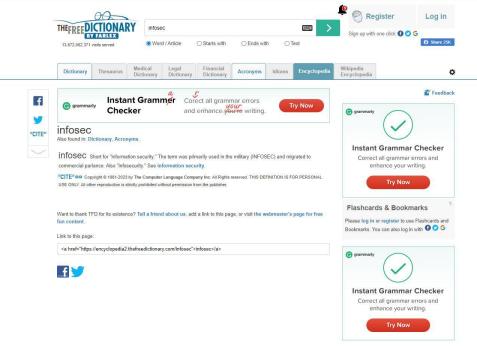
**Description of Mark** 

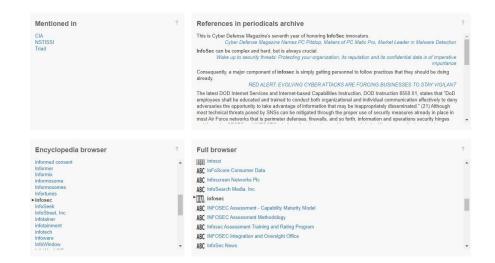
**Status REGISTERED** 

**Attorney of Record** Craig Carpenter

**Print:** November 1, 2023 11:48 AM

https://encyclopedia2.thefreedictionary.com/infosec at 04:05:11, 11/01/2023









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Disclaimer

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information security dical, Legal, Financial, Acronyms, Wikipedia.



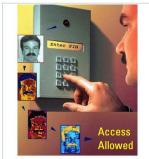
information security The protection of data against unauthorized access. Programs and data can be secured by issuing passwords and digital certificates to authorized users. However, passwords only validate that a correct number has been entered, not that it is the actual person. Digital certificates and biometric techniques (fingerprints, eyes, voice, etc.) provide a more secure method (see authentication). After a user has been authenticated, sensitive data can be encrypted to prevent aswesdopping (see cryptography).

# Authorized Users Can Be the Most Dangerous

Authorized Users Can Be the Most Dangerous
Although precautions can be taken to authorized suers, it is much more difficult to determine if an authorized employee is
doing something malicious. Someone may have valid access to an account for updating, but determining whether phony
numbers are being entered requires a great deal more processing. The bottom line is that effective security measures are
always a balance between technology and personnel management. See Parkerian hexad, information assurance,
security scan, security audit, audit trail, NCSC, ICSA, access control, share-level security, user-level security and
social engineering.



Feedback



### Facial Recognition

Facial recognition is one of the best ways to authenticate a person. This TrueFace system from Miros uses neural network technology to distinguish a face with different appearances, such as with and without glasses and changing hair styles. (Image courtesy of Miros.

Inc.)

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ABC Information Screenlingue et lechnique
ABC Information Screening and Delivery System
ABC Information Screening and Display Subsystem information security ABC Information Security & Network Research Group
ABC Information Security & Networking Professionals ABC Information Security Administration ABC Information Security Analysis Program
ABC Information Security and Assurance

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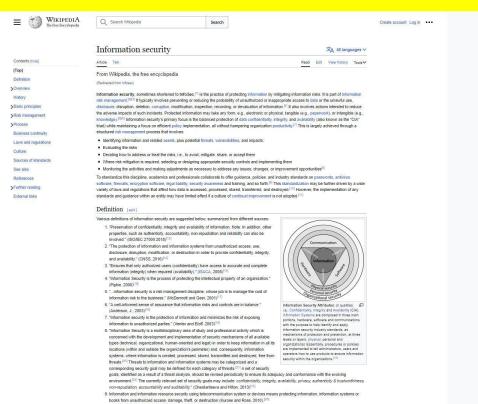




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https://en.wikipedia.org/wiki/Information\_security at 04:08:15, 11/01/2023



Information and information resource security using telecommunication system or devices means protecting information, information systems or books from unauthorized access, damage, theft, or destruction (Kurose and Ross, 2010) [23]

At the core of information security is information assurance, the act of maintaining the confidentiality, integrity, and availability (CIA) of information, ensuring that information is not compromised in any way when crifical issues arise (PII). These issues include but are not limited to natural disasters, computer/server matfunction, and physical their. While paper-based business operations are still previolent, requiring their own set of information security practices, entertiends detail information are insortionary to be certain the charactery contributions are increasable of them enthistories (PIII) with formations assurance now torouth belone deal with by information sustance now torouth belone deal with by information sustance now torouth belone deal with by information sustance now torouth belone.

(IT) security specialists. These specialists apply information security to technology (most often some form of computer system). It is worthwhile to note that have a computer does not necessarily mean a home desktop. I'm a computer is any richica with a processor and some memory. Such devices can range from one-relowanted standards evicers as single as acticulates, to networked mobile computing devices such as restrictions existed as some processors. In the computer of the

information or gain control of the internal systems. [607] The field of information or scurily has going and evolved significantly in recent years. [70] It offers many areas for specialization, including securing networks and attel enfrastructure, securing applications and calculates, security letting, information systems suctifies, business confusity planning, electronic record discovery, and coligial between, [607] exercised information sequently professionate by entry table in their employment. [70] As of 2018 me than 80 percent of prefessionate had not obtained in employer or employment over a period of a year, and the number of professionate is projected to continuously grow more than 11 period center annually from 2014 to 2019 [70].

### Threats [edit]

Threats: [set]

Information security threads come in many different forms [1989] Some of the most common threads loday are software altacts, theft of referricular information exclude, proceeding the common threads loday are software altacts, theft of referricular information exclude, proceeding the common companies of exclusive process. The thread of referricular information or threads through the common companies of exclusive passing or information or to lake advantage of their referricular information in technology (7) field <sup>168</sup> Sectify the first the effect and fine of the common companies or threads the common companies of the common common companies of the common co

Governments, milliary, corporations, financial institution, hospitals, non-point organisations, and private businesses amase a great deal of confidential information about their energicies, customers, products; research, and financial status in 150 Audio confidential institution about their energicies, customers, products; research, and financial strain product time for a financial strain strain and the strain products and the strain of a financial strain and the strain products and the strain decorations growth and the strain products and the strain decorations growth and the strain products and the strain decorations growth and the strain products and the strain and the strain products and the strain and the strain products and the strain pr

For the individual, information security has a significant effect on privacy, which is viewed very differently in various cul

Possible responses to a security threat or risk are: [52]

- reduce/mitigate implement safeguands and countermeasures to eliminate vulnerabilities or block threats
   assign/brander place the cost of the threat onto another entity or organization such as purchasing insurance or outse
   accept evaluate if the cost of the countermeasure outweights the possible cost of loss due to the threat<sup>(1)</sup>

### History [edt]

Since he early days of communication, diplomats and military commanders understood that it was necessary to provide some mechanism to protect the confidentially of correspondence and to have some means of delecting tampering <sup>618</sup>. After Cesear is condied with the invention of the Cesear ciplor consists of the confidentially of correspondence and to have some means of delecting tampering <sup>618</sup>. After Cesear is condied to worsh place <sup>618</sup> the worsh in a cesear plant of the cesear ciplor consists of the control of the Cesear ciplor consists of the cesear ciplor cesear ci

information.<sup>101</sup>
The establishment of computer security inaugurated the history of information security. The need for such appeared during Virtal Vivia II.<sup>101</sup>
The volume of information shared by the Allied countries during the Second Virtal Vivia recessibled formal alignment of classification systems and procedural controls and An activate representatives provided to include two countries during a countries of usually office and procedure for usually office and the stress of the countries countries of usually office and the stress of the s

intelligence coups of the war (e.g., the capture of U.ST<sup>(2)</sup>).

Various Maintaine computes over connected or office during the Cold Vair to complete more sophisficated tasks, in a communication process easier than making magnetic those back and forth by compute centers. As such, the Advanced Research Projects Agency (APPA), of the United States Department of Defense, stated researching the feability of a networked system of communication to task information within the United States Amed Proces. In 1968, the APPANET precise value formation to the APPANET product of the County for the County of the

Business continuity Laws and regulations

Laws and regulations Culture

Sources of standards See also References >Further reading

Sources of standards

>Further reading

Laws and regulations

Sources of standards See also References >Further reading

Culture

External links

The end of the twentieth century and the early years of the liventy-first century saw rapid advancements in telecommunications, computing hardware and software, and dath encryption. [17] The availability of randler, more powerful, and lose segments computing equipment made electronic data processing within the reach of amb business and none users. <sup>1778</sup> the stalkhalment of Transfer Confere Protocol (TCPHP) in the early 1909s enabled different types of computers to communicate. <sup>1781</sup> These computers quickly became interconnected through the internet. <sup>1791</sup> These computers quickly became interconnected through the internet. <sup>1791</sup>

The rapid growth and widespread use of electronic data processing and electronic business conducted through the internet, along with numerous occurrences of international surrount, feeled the need for better methods of protecting the computers and the information they store, process, and transmit?" The according disciplines of complete security and international essuance memoral along with numerous professional organizations, all sharing the common goals of ensuring the security and reliability of information systems. REMIND REM

Basic principles [edit]

### Key concepts [edt]

Key concepts [edi]

The TuXT istad ordinariality integrity, and availability is at the heart of information security. The TuXT istad ordinariality integrity, and availability—see interchangeably referred to in the literature as security attributes, properlies, security gods, fundamental aspects, information criteria, critical information characteristics and basic building blooks; "Ill reviewer colorate critical information characteristics and basic building blooks; "Ill reviewer colorate critical information characteristics and basic building blooks; "Ill reviewer colate confirme about height or micro consider expanding on the interactions below an availability and confidentiality, as was all a that is sufficient to address repolly changing technology and business requirements, with recommendations to consider expanding on the interactions belower availability and confidentiality, as was all the relationship belower sourchy and privacy." Other principles such as "accountability" have sometimes been proposed. It has been provided out that sustained such as "accountability" have sometimes been proposed. This been provided out that sustained and such as "accountability" have sometimes been proposed. This been provided out that sustained and such as "accountability" have sometimes been proposed. This been provided out that sustained and such as "accountability" have sometimes been proposed. This beam provided out that sustained as "accountability" have sometimes been proposed. This beam provided to the provided out that sustained as "accountability" have sometimes been proposed. This beam provided to the provided out that sustained as "accountability" have sometimes been proposed. This beam provided to the provided out that sustained as "accountability" have sometimes been proposed. This beam provided to the provided out the sustained as "accountability" have sometimes been proposed. This beam provided to the provided out the sustained by the provided out the sustained by the provided out the sustained by the provi

The bind seems to have first been mentioned in a NBST publication in 1997.<sup>191</sup> In 1992 and revised in 2002, the CECD's Guidelines for the Security of Information Systems and Antonordial Topicion the nine generally occupate principles similarious, reoperability, response, eithor, democracy, risk assessment, security design and implementation, security management, and reassessment "binding upon these, in 2004 the NBST Expressing Principles for Information Technology Security\* in proposed a principles. From each of these derived guidelines and practices, in 1999, Down Parker grouposed an interview model for the classic CVL trials that he classic that such a classification of the principles of the Parkers of the Parkers in Feord are a subject of debate amongst security professionals. <sup>191</sup>



professionals [16] Professionals

### Confidentiality [odit]

Commensury (act) in information security, confidentiality "is the property, that information is not made available or disclosed to unauthorized individuals, entities, or processes." White similar to 'privacy," the how words are not interchangeable. Rather, confidentiality is a component of privacy that implements to protect our data from unauthorized viewers. "It camples of confidentiality of electronic data being compromised include lighting their, password thefit, or sentitive mails being per to the incorrect individuals I<sup>(1)</sup>.

### Integrity [edit]

Integrably (acti)
In IT executly, data integrity means maintaining and assuring the accuracy and completeness of data over its entire lifecycle. <sup>[10]</sup> This means that data cannot be modified in an unauthorized or undetected manner. <sup>[10]</sup> This is not the same thing as referential integrity in databases, although it can be viewed as a special case of consistency as understood in the classes. Accin mode of transaction processing. <sup>[10]</sup> Information executly system spince security system spince accurately system spince accurately accompanied in the control of the classes. Accin mode of transaction processing. <sup>[10]</sup> Information accident interests. <sup>[10]</sup> Multi-purpose and multi-user composers and accidental threats. <sup>[10]</sup> Multi-purpose and ac

### Availability [edit]

The art information system to serve its purpose, the information must be available when it is needed <sup>[10]</sup>. This means the computing systems used to store and process the information, the security contributes the predect it, and the communication chamels used to access it must be functioning correctly. <sup>[10]</sup>

Figh availability systems and no remain available at all tones, preventing personic daugnotine used to power cadagas. Facilities the advance facilities, and show upgrates. <sup>[11]</sup> Ensuring availability also involves preventing densist-of-service attacks, such as a floor of incoming messages to the target system, cascertably forcing it boat down. <sup>[11]</sup>

essentially forcing it is that down."

In the readon of information security, availability can often be viewed as one of the most important parts of a successful information security program.

Internative and Ultimaday end-uses need to be also a proform to functions; by ensuring availability an organization is able to perform to the standards that an organization standards readout the standards that an organization standards readout the standards that an organization standards readout the standards that and part of the standards that an organization standard that the above the standards that and readout the standards that an organization standard and the standards that and standards that the standard that the standard that the standard that the standards that the

# Non-repudiation [edit]

Laws and regulations Culture

See also

>Further reading

Sources of sta

in law, non-reposation impries one a mention to full inter congations to a contract, it also impries that one party or a transaction, cannot certy naving received a farametion, nor can the other party deny thinking sent a transaction. 

It is important to note that white technology such as cryptographic systems can assist in non-reputation efforts, the concept is at its core a legal concept that such cannot describe the contract of the contra

### Risk management [edit]

Main ancho: Plast management is the Bellhood that something bad will happen that causes harm to an informational asset (or the loss of the asset). 

Broadly speaking, risk is the Bellhood that something bad will happen that causes harm to an informational asset. Althreat is anything (man-made or act of nature) has been been been been harm. The bad instructed or act of nature) that has be potential to be such harm. The bad instructed that all the sub-orderable (but some harm creates a main value of the act of which the sub-orderable (but some harm creates a main value) are universability to inflict harm. It has an impact "In" if the content of information security, the impact is a loss of availability, integrity, and confidentiality, and possibly other losses (but for come to so of the, loss of risk property). 

The Central information Systems Auditor (CSS) Review Manual 2005 defines risk management as the process of developing vulnerabilities and threats to be information converse used by an operationation in acknowledge places educations, and deciding what countermeasures, "I'm" if any, to bits in reducing risk to an acceptable level, based on the value of the information resource to the organization."

risk to an acceptable level, based on the value of the information resource to the organization.<sup>10,12</sup>
There as the hollings in this defettion that may meet some distriction. First the process of its management is an enging, iterative process. It must be repeated indefinitely. The business environment is constaintly changing and new threats and vulnerabilities emerge every day. <sup>11,12</sup> Secord, the choice of confirmanisation (controlled business environment is constaintly changing and new threats and vulnerabilities emerge every day. <sup>11,12</sup> Secord, the choice of confirmanisation (controlled processes of the confirmances as not the value of the controlled processes of the confirmances are designed to the controlled processes of the confirmances are as the confirmance and the

27002 2005 Code of practice for information security management resecurity policy;
assier framagement,
human resources security;
assier framagement,
human resources security;
physical and environmental security,
communications and genetions management,
access control,
information systems acquisition, development, and maintenance,
information systems acquisition, development,
information security incident management,
business controlly management
regulatory compliance. In broad terms, the risk management process consists of [126][127]

- brood ferms, the risk management process comists of (\*\*PRET)\*\*

  I loselification of seeks and estimating the value houlde people, buildings, hardware, software, data (electronic, print, other), supplies [\*\*PRET\*\*

  2. Conduct a threat assessment include. Acts of raute, excidents, malicious acts originating from inside or ordiscle the opartization [\*\*PRET\*\*

  2. Conduct a value of the print of t

- Section 1, section is unusual approximation for the control measures. Finance the controls provide the required cost effective protection without discernible loss of productive (177).

For any glennisk, management can choose to accept the risk based upon the relative low value of the asset, the relative low frequency of occurrence, and the relative low makes on the because the relative low makes on the because in the charge of the char

### Security controls [edit]

Section gain dispersion groups security controls will initiatly help an organization bring down risk to acceptable levels [12] Control selection strong down risk to acceptable levels [12] Control selection should follow and should be based on the risk assessment [12] Controls can vary in nature, but fundamentally bey are vary of protecting the confidentially initiately or availability of information. ISOREC 2010 has defined controls in different areas [12] Organizations can implement additional controls according to requirement of the organizational risks [13] Control and according to requirement of the organization [14] ISOREC 2010 cities a guideline for organizational information security standards [14]

Administrative controls (also called procedural controls) consist of approved written policies, procedures, standards, and guidelines. Administrative controls

security policy, password policy, hinting poscies, and ossignmenty poscies — Administrative controls form the basis for the selection and implementation of bigical and physical controls. Logical and physical communities of administrative controls, which are of paramount importance [143]

Copical controls (gain called lechnical controls) use software and data to monitor and control access to information and computing systems. (Passwords, network indusion detection systems, access control lists, and data encryption are examples of logical controls.)

controls [\*\*]\*\* An important logical control that is frequently overloaded is the principle of least printings, which requires that an individual, program or system process not be granted any more access printings than are necessary to perform the lasts.\*\*

\*\*Individual program or pystem process not be granted any more access printings that are necessary to perform the lasts.\*\*

\*\*Individual recomplex to the failure to adhere to be principle of least printings and access printings are not included. The latest printings are the subsection of this principle can also occurred man an individual collects additional access printings control in more interesting and transferred to an interesting access printings are transferred to another department.\*\*

\*\*Individual recomplex to the printing access printings are required by their new duties are frequently added onto their already existing access printings are printing access printings are printing access printings are printing and access printings are required by their new duties are frequently added onto their already existing access printings are printing and access printings are required by their new duties are frequently added onto their already existing access printings are required by their new duties are frequently added onto their already existing access printings.\*\*

Physical [selt]
Physical controls monitor and control the environment of the work place and computing facilities [SEIT] They also monitor and control access to and from such facilities and include doors, locks, healing and air conditioning, smoke and fee alarms, fee suppression systems, cameras, barricades, fencing, security guards, cable locks, etc. Separating the reheroix and workplace ind functional areas are also physical controls [SEIT].
All important physical controls that is expensely overclosed in separation of offset, which reviews that an individual cannot complete and control that is expensely overclosed in separation of offset, which reviews that an individual cannot complete and control that is expensely overclosed in separation of offset which reviews that an individual cannot complete and control that is expensely overclosed in the check! [SEIT] and applications programmer about not also be the server administrator or the distributes administrator, these roles and responsibilities must be expensely from a uniform.

network

application data

nion model of defense in depth

Ð

Defense in depth [edit]

Main article: Defense in depth (computing)

Main article Enfense in depth (computing)
Information security must proteet information broughout fit lifespan, from the initial creation of the
information on thirty must proteet information broughout fit is fireward to the information on the product of
the information on the product of the information on the product of the information processing systems and through many different parts or information processing systems and through many different parts or information systems can be
threadened. To fully protect the information during its listense, each component of the information processing
systems must have been on protection mechanisms. When the buildings (in lyeigeng on and
overlapping of security measures is called 'defense in depth." "Bell in context to a metal Chain, which
is famously only a story as its vasicated in the defense in depth." The formation protection in the context of the protection of the information processing systems are some as the vasical form the context of the protection of the information processing in the protection mechanisms. Bell in the buildings (in given given on and
overlapping of security measures is called 'defense in depth." The literature is to a metal Chain, which is
a formation of the protection of the information of the inf

about on determine measure fail, other measure sit understand the provide protection. The first provide protection is the provide protection of the provide protection in the first provide protection is depth of the first provide p

st layers of the onion.[162] Both perspectives are

### Classification [edit]

Classification [est]
An importal aspect information sociuty and risk management is recognizing the value of information and defining appropriate procedures and protection requirements for the information is required as expanding appropriate procedures and this protection requirements for the information is required and the protection for the protection for the control of the protection for the protection for the control of the control of the protection for the control of the control of

Some factors that influence which classification information should be assigned include how much value that information has to the organization, how did the information is and whether or not the information is abscorned bookine? "If Laws and other special properties of the information is an information of the information in the organization in the information in the infor

- . In the business sector, labels such as: Public, Sensitive, Private, Confidential.

• In the business sector, labels such as Palicii, Sensible, Private, Confidential, Secret, Top Secret, and their non-English equivalents [177]
• In cross-sectoral formations, the Traillic Light Protocol, which consists of White, Green, Amber, and Red.
• In the personal sector, one label such as Financial, This includes activities related to managing mores, such as online banking [178]. All employees in the organization, as valled as business partners, must be tailed on the banking to provide and handing procedures for each classification in [178]. The classification of a particular information asset that has been assigned should be reviewed periodically in ensure the classification is all gapoprised for the information and to ensure the security controls required by the classification are in place and are followed in their right procedures [178].

Laws and regulations

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See also

>Further reading

See also

>Further reading

Access control [edit]

Access to protected information must be restricted to people who are authorized to access the information. <sup>[176]</sup> The computer programs, and in many cases the computer programs part process the information, must also be authorized <sup>[177]</sup> This requires that mechanisms be in place to control the access to protected information. <sup>[177]</sup> The suppristication of the access control mechanisms should be in partly with the value of the information being protected, the more sensitive or valuable the information the stronger the control mechanisms need to be <sup>[177]</sup> The foundation on which access control mechanisms are built start with identification and authoritication. <sup>[178]</sup>

Access control is generally considered in three steps: identification, authentication, and authorization.[180][92

Identification [edit]

International Leafs. Determined the statement of who someone is or what something is. If a person makes the statement "Hello, my name is John Doe" they are making a claim of who they are. [1<sup>nd</sup> However, their claim may or may not be thus. Before John Doe can be granted access to protected information it will be necessary to verify that the person claiming to be John Doe ready is John Doe. [1<sup>nd</sup>] Typically the claim is in the form of a username. By entering that username pour are claiming "I am the person the username belong to "I<sup>nd</sup>".

Authentication is the act of verifying a claim of identity. When John Doe goes into a baint to make a withdrawal, he lefs the bank teller he is John Doe, a claim of identity. The bank teller also to see a photo ID, so he hands the teller his driver's licenses. When ID is the bank teller checks the identity in the bank teller bank tell

- Something you know: things such as a PIN, a password, or your mother's maiden name. 190(§191)

Something you have: a driver's license or a magnetic swipe card<sup>(102,193)</sup>
 Something you are: biometrics, including palm prints, fingerprints, voice prints, and retina (eye) scans<sup>(164)</sup>

Softening you are comments, including jump jump, implying votor jump, an a reliant (e/e) Scalar— Schrog authentication generate providing more han one type of authentication information by clocked antihentication (mill Upernames is the most common form of identification on compute systems today and the password is the most common form of authentication. (mill Upernames and password in the wave of the property on Lindy an information judicequals. (mill Upernames and password are always being replaced or supplemented with more sophisticated authentication mechanisms such as Time-based One-time Password algorithms. (1941)

Autoration (1981).
After a person, program or compute has successfully been identified and authenticated then it must be determined what informational resources they are permitted to access and what actions they will be allowed to perform run, view, create, detek or change). This is called authorization. Authorization to access information and deep remarks and a success information and computing services can be successed by the allowed to reduce the person of the computing services are to access continued to a success cont

The non-discretionary approach consolidates all access control under a centralized administration. [69] The access to information and other resources is usually based on the individuals function (riche) in the organization or the tasks the individual must perform. [69] The discretionary approach gives the creater or water of the information resource. The information resource. [67] In the mandatory access control approach, access is granted or denied basing upon the security classification assigned to the information resource. [67]

granted or denied basing upon the security classification assigned to the information resource. [198]
Examples of common access control mechanisms in use today include role-based access control, available in many advanced disblase management systems, simple the permissions provided in the URIX and Viridonos operating systems. [198] Only Policy Objects provided in Viridonos reheated systems, and inclusives, RADIOS, TADIOSC, and the simple access sits used in many incrematal and collecting. [198]
To be effective, policies and other security control must be enforceable and updated. [198] Only policies provided and his security control must be enforceable and updated. [198] The US. Treasur's guidelines for systems processing sensitive or proprietary information, for example, states that all failed and successful authentication and access afterprise must be looged, and all access information must be some type of seal strature. [198]
Also, the need-b-movy principle needs to be in effect when falking about access control. This principle gives access rights to a person to perform their plant of the proprise proprise is used in the government when designs with difference declarations. [198] The employer is least of the granter of the proprise gives access rights to a person to perform their plantances. [198] The proprise gives access right to a person to perform their share allowed and accessing with the proprise gives access right to a person to perform their share allowed accessing more than with they are supposed for [198] Need-to-Innov helps to enrich the confidentially-integrity-availability that. Need-to-Innov depth in confidential area of the trata [198].

Cryptography [edit]
Main article: Cryptogra

Mein article: Cryptography
Information security uses cryptography to transform usable information into a form that renders ill unusuable by anyone other than an authorized user, process is called exception. First information that has been excrypted (rendered unusuable) can be transformed back into its original usable from by an authorized user into possesses the cryptographic key, through the process of decryption. First Cryptography is used in information security to protect information from unauthorized or accidental disclosure while the information is in transit (either electronically or physically) and while information is in strongle.

strategier. Cryptography provides information security with other useful applications as well, including improved authentication methods, message disjests, digital signatures, non-epublishon, and encrypted network communications [\*\*\*!\*Oder, less secure applications such as Tolled and File Transfer Protocol (FPD) area solvely being registered with more secure applications such as Secure Security (being registered with communications) ("Weekers communications can be encrypted uning protocols such as VMPA/MPA2 or the older (and less secure) WEP Wired communications (such as TILUT G Inn) are secured using a EES for encryption and X, 1035 for authentication and key exchange [\*\*\*!] Schware applications such as GruPG or PCP can be used to encrypt data files and email [\*\*\*!]

Cryptography can introduce security problems when it is not implemented correctly [229] Cryptographic solutions need to be implemented using industry-

Laws and regulations

Culture Sources of standards

See also

>Further reading

External links

adoption common that there is exceptive typowarpers persons or purposed and properties of the properties that surround key management, [20] and they must be problems that surround key management, [20] and the properties of the problems that surround key management, [20] and the properties of the problems that surround key management, [20] and the problems that surround key management [20] are the problems that surround key management, [20] and [20] are the problems that surround key management [20] are the problems that sur

### Process [edit]

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Business continuity Laws and regulations

Culture Sources of standard See also

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See also >Further reading External links

PTOCSS [186]
The form "reasonable and prudent person", "due care", and "due difigence" have been used in the felds of finance, securities, and law for many years in recent years here terms have found their way into the felds of computing and information security [172] U.S. Federal Sentencing Quidelines now make if possible to had copposed felders label for Highing to exercise due acre and due different in the management of their information systems. The information systems are accordance with socretion countries to the composition of the c

Due one are steps that are taken to show that a company has taken responsibility for the activities that take place within the corporation and has taken the recessary steps to help protect the company, its resources, and employees<sup>[777]</sup>. Find, Due diligence are the j<sup>7</sup> Continual activities that raises care the protection mechanism are occurring, maintained and operations. <sup>7773</sup>

Affection should be made to two important points in these definitions provided in the care, steps are taken to show, this means that the steps can be verified, measured, or even produce targotile artifacts provided in due objectes, there are continual adolities; this means that people are actually doing things to monition and maristan the protection mechanisms, and these activities are onporting.

Organizations have responsibility with precision glut of care when applying information executly. The Duty of Care Risk Jensy's Standard (DoCRA) provides principles and practices for evaluating risk. Prill considers all partices that could be affected by those risks. Prill DoCRA helps evaluate safeguards if they are appropriate protecting others from harm white presenting a reasonable burden. 2011 With increased data breach litigation, companies must balance security controls, compliance, and to mission (2011).

# Security governance [edit] See also: Information Security Governance

See also, information Security Governance
The Software Engineering installs at Clampie Metalon University, in a publication titled Governing for Enterprise Security (GES) Implementation Guide, defined near-classics of effective security governance. These include P<sup>(i)</sup>

An enterprise-vice issue
Leaders are accountable
Moved as a business requirement
Risk-based
Riske, responsibilities, and segregation of duties defined
Addressed and another of the Control of the Contr

### Incident response plans [edit]

This section needs expansion. You can help by adding to it. (January 2018)

An incident response plan (IRP) is a group of policies that dictate an organizations reaction to a cyber attack. Once an security breach has been identified, for example by Network intriusion for bestion System (NIDS) of configured to do so), the plan is initiated. "I'll it is provided to note that there can be legal implication to a cladar been. Noting bould and feed into its ordisciple." The provident to note that there can be legal implication to a cladar been. Noting bould and feed into its ordisciple." The plan is unique to the needs of the organization, and it can movie still sets that are not part of an I'll team. "I'm! For example, a lawyer may be included in the response plan to help mayable logal implications to a dath execut. Notincerescent."

As mentioned above every plan is unique but most plans will include the following: [243]

### Preparation [edit]

Good preparation includes the development of an incident Response Team (RT) (\*\*\*\*) Saliss need to be used by this beam would be, penetration lesting, compute fremerics, network security, etc. \*\*\*\*\*(\*\*\*)\*\*\* This beam should also been track of tends in operational and modern attack stategies (\*\*\*\*)\*\*\*(A ranney program for end users as important as well as not inclined analisat stategies (\*\*\*\*)\*\*(A ranney program for end users as important as well as not important end users and important end users are also as a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users and important end users are a support of the end users are a support of the end users and the end users are a support of t

### Identification [edit]

Institution (1997). This part of the incident response plan identifies if there was a security event. <sup>[247]</sup> When an end user reports information or an admin notices regular an investigation is launched. An incident log is a cucial part of this step. <sup>[247]</sup> and the members of the fearm should be updating this log to ensure that information flows a soft as a possible. <sup>[247]</sup> if his a been identified that a security broad his occurred the not step should be advanted by the host possible of the absolute part of the security broad his occurred the not step should be advanted by the soft part of the security broad his occurred the not step should be advanted as the security broad his occurred the not step should be advanted by the security of the security of the security between the security of the securi

In this phase, the IRT works to isolate the areas that the breach took place to limit the scope of the security event.<sup>[271]</sup> During this phase it is important to preserve information forensically, so IC can be analyzed later in the process <sup>[272]</sup> Containment could be as simple as physically containing a server room or as complex as separating a network to dail on the specal of a visus <sup>[272]</sup>.

When the process of the pr

This is where he threat that was identified is removed from the affected systems [1760] This could include deleting malicious files, terminating compromised accounts, or deleting other comproments. [1760] Some events do not require this step, however it is important to fully understand the event before moving to this step. [1761] This limit help to ensure that the first als completely removed [1761].

### Recovery [edit]

This stage is where the systems are restored back to original operation [PM]. This stage could include the recovery of data, changing user access information, or updating fework lines or policies to prevent a breach in the flavore [PMPMM] Without executing this step, the system could still be vulnerable to future scausiff senses [PMMM].

### Lessons Learned [edit]

Business continuity Laws and regulations

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In this step information that has been gathered during this process in used to make future decisions on security. [291] This step is crucial to the ensure that future events are prevented. Using this information to further train adminis a circle of the process. [291] This step can also be used to process information that is distributed form often entities with one experienced associative years. [291]

### Change management [edit]

Charge management is a formal process for directing and controlling alterations to the information processing environment [PAR]PRII]. This includes attentions to destito computes, the network, servers, and software [PAR]PRII and specified or change management are to reduce the risks posed by changes to be information processing environment and improve the stability of an expressing environment and improve the stability of an expressing environment and arbitrary that is not the objective of change management to prevent or index necessary changes from being implemented [PAR]PRII].

objective of change management to prevent to prevent or hinder necessary changes from being implemented (Pillica).

Any changes the firm formation processing in vinciment introduces a melement of (risk, Pillica) being appeared by implicit changes can have unexpected effects. (Pillica) on the changes can have unexpected effects, (Pillica) on the changes in the changes can have unexpected effects. (Pillica) on the changes can have unexpected or the change can be processed in the changes of the change can be a processed in the changes of the changes are and implemented all inopportune times when they may direct calculate processes or interfere with other changes being implemented. (Pillica) of the changes are appeared processes or interfere with other changes being implemented. (Pillica) of the changes are appeared processes or interfere with other changes being implemented. (Pillica) of the changes are appeared processes or interfere with other changes being implemented. (Pillica) of the changes are appeared processes and a change of the changes are appeared processing and changes are appeared processes or interferent. (Pillica) of the changes are appeared processes and a change of the changes are appeared processes and a change of the changes are appeared processes and a change of the changes are appeared processes and a change of the changes are appeared processes and a change of the changes are appeared processes and a change of the changes are appeared to the

- Respect Jorgen can rejected a change <sup>(17,17,18)</sup> The person making the change request may or may not be the same person that performs the adaptive of respectation that change <sup>(17,18)</sup> When a request for though is revenuely can underloap a periminary revenuely ordering a repeated in the request of the respectation is compatible with the organizations lossiness model and practices, and to determine the amount of resources needed to implement the change <sup>(17,18)</sup>.
- change. <sup>[12]</sup>
  A paprover Management runs the business and controls the allocation of resources therefore, management must approve requests for changes and assign a priority for every change. <sup>[12]</sup> Management might doose to report a change request if the change is not compatible with the business mode industry standards such best practices. <sup>[12]</sup>
  Management might also choose to reject a change request if the change requisits more resources than can be allocated for the change. <sup>[12]</sup>
  Management may be also choose to reject a change request if the change requisits more resources than can be allocated for the change. <sup>[12]</sup>
  Management may be a proposed to the change of the proposed change, analyzing the complexity of the change, allocation of resources and, developing testing, and documenting both implementation and back-out plans. <sup>[12]</sup>
  Meet to define the criteria on which a decision to back out with the management may be a support of the change and documenting both implementation and back-out plans. <sup>[12]</sup>
  Meet to define the criteria on which a decision to back out with the management may be a support or the change of the change and documenting both implementation and back-out plans. <sup>[12]</sup>
  Meet to define the criteria on which a decision to back out with the management must approve required to the change and the chan
- Test: Every change must be tested in a safe test environment, which closely reflects the actual production environment, before the change is applied to the production environment. [2891] The backout plan must also be tested [2891]
- Test Every drange must be tested in a safe lest environment, which closely reflects the actual production environment. Either the change is applied to the production environment. Either the change is applied to the production environment. Either the change is applied to the production environment. Either the change is applied to product the change review board is reported in certificate with other scheduler dampes or critical business calcrides. Primary of the communication is to give others the copportunity to remind the change review board suited or the change review branche and doubt either the communication also serves to make the help cleak and users aware that a change is about to cocact." Another responsibility of the change review board is to ensure that a scheduler changes have been provided with the experiment of the change is expected to cocact. "In a communication also serves to make the help cleak and users aware that a change is about to cocact." Another responsibility of the change review board is not extract the scheduler of the change in the change of the change is the change of the change is the change of the change is the change of the change in the change of the change is a constant. The change is approved to the change is the change of the change is changed in the changed is changed. The change is changed in the changed is changed in the changed is changed in the change is changed in the cha

Change management procedures that are single to follow and easy to use can greatly reduce the overall risks created when changes are made to the information processing environment.<sup>1107</sup> Good change management procedures improve the overall quality and success of changes as they are information processing environment.<sup>1107</sup> Good change management procedures improve the overall quality and success of changes as they are implemented.<sup>1107</sup> this is accomplished through planning, peer review, documentation, and communication.<sup>1107</sup>

ISO/IEC 20000, The Visible OPS Handbook: Implementing ITIL in 4 Practical and Auditable Steps<sup>[121]</sup> (Full book summary), [122] and ITIL all provide valuable guidance on implementing an efficient and effective change management program information security (122)

Business continuity

Culture Sources of sta

See also

References External links

Business continuity management (ICAI) concerns arrangements aiming to protect an organization's critical business functions from interruption due to incidents, or at least minimize the effects [17,12] BCAII sessential to any organization to keep behindroply and business in line with current threats to the continuation of business a susual [17,12] BCAII set in organization in any analysis given to ensure that all of the necessary business functions have what they need to keep going in the event of any type of threat to any business function. [17,12]

- (generic capstallites to deal positively with whatever occurs using whatever resources are available,<sup>[15]</sup>

  Implementation, e.g., configuring and scheduling babilator, data transfers, etc., duplicating and steengthering critical elements, contracting with service and equipment suppliers.

  \*\*Testing\*\* i.e., business continuity exercises of various types, costs and assurance levels;\*\*\*Testing\*\*

  \*\*Hanagement, e.g., celleng states/pers, setting object-lose and opais; planning and directing the work; allocating funds, people and other resources; printitization relative to other activities, learn building, leadership, control, motivation and coordination with other business functions and activities; plans to the printing of the proposal funds of the printing of the pr

actions for greater commence that the artificipations to making the part of months by enducing both the probability and the severity of incidents, a disaster recovery plan (IRIPP) focuses specifically on resourcing basiness operations as quickly as possible after a disaster. If making the probability and the severity of incidents, a disaster recovery plan months of the part o

Laws and regulations [edit]

Below is a partial listing of governmental laws and regulations in various parts of the world that have, had, or will have, a significant effect on data processing and information security. PIPERFF Important industry sector regulations have also been included when they have a significant impact on information security. PIPEFF Important industry sector regulations have also been included when they have a significant impact on information security. PIPEFF Important industry sectors are security. PIPEFF Important industry sectors are sectors.





- private financial information that financial inetification collect, hold, and process<sup>[5]</sup>

  Section 464 of the Stathens-Chiley Act of 2002 (2007 incepase region) in the private financial control for financial inporting in annual region they submit at the end of each fiscal year. <sup>[5]</sup>

  Child importing in annual region they submit at the end of each fiscal year. <sup>[5]</sup>

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  The Piymont Chile flowers of reliability of the deviate of the Chile Security Standard Chile Collis Security Standard Chile Security Standard Ch

Laws and regulations

Culture

See also

Greece's Hellenic Authority for Communication Security and Privacy (ADAE) (Law 165/2011) establishes and describes the minimum information.

security controls that should be displayed by every company which provides electrants communication networks and/or services in Greeco in order to prode customers' confidentially. (\*\*\*O'\*\* These include both managerial and behinds controls (e.g., log seconds should be started from by easy). (\*\*\*O'\*\* (\*\*\*O'\*\* Electrant Second should be started from by easy). (\*\*\*O'\*\* (\*\*\*O'\*\* Electrant Second should be started from by easy). (\*\*\*O'\*\* (\*\*\*O'\*\* Electrant Second should be started on the protection of the integrity and availability of the services and data offered by Greek telecommunication companies; (\*\*\*O'\*\* Electrant Second should should be started should be started should should be started should should be started should be start

ceptor, and lest appropriate couriness community passes and recurrount interactionuses.\*\*

The US Department of Defense (DGD) issued DOD Derective 870 in 2004, supplemented by DGD Directive 8140, requiring all DGD employees and all DGD contract personnel involved in information assurance roles and activities to earn and maintain various industry information Technology (TI) certifications in an effort to exerure that all DGD personnel involved in network infrastructure defense have minimum levels of TI industry recognized troutedge, skills and abilities (ISCA). Ancesson and Remeres (2019) report here certifications range from CommTM-5x + and Security through the ICS2 only SCSSP etc. (1919)

### Culture [edit]

Describing more than simply how security aware employees are information security culture is the ideas, customs, and social behaviors of an organization was first in proceeding on the interest segments of the organization work effectively and the impact information security in both positive and negative ways <sup>(177)</sup> Cultural concepts can help different segments of the organization work effectively or voor against effectiveness towards information security within an organization. The way employees think and find about security and the actions they take can have a big impact on information security in organizations. Roor & Petric (2017) identify seven core dimensions of information security culture in organizations; <sup>(178)</sup>

- organizations [714]

  A affiliates Employees feelings and emotions about the various activities that pentain to the organizational security of information [717]

  Behaviors: Actual or intended activities and risk-taking actions of employees that have direct or indirect impact on information security.

  Compliance: Administration in the property of the

information, data tracety the organization.

Anderesson and Remons (2014) found that employees often do not see themselves as part of the organization information Security "effort" and often take addross that ignore organizational information security to either establishment of the property of the pro

- Pre-Evaluation to identify the awareness of information security within employees and to analyze current security policy.
   Strategy Elementy To come up a batter awareness or program, we need to set of our targets. Clustering people is helpful to achieve it.
   Operatine Flamma greate a good security culture based on intention communication, management by in, security awareness, and training programs.
   Implementation: should feature commitment of management, communication with organizational members, courses for all organizational members, and commitment of the employees!
- Post-evaluation: to better gauge the effectiveness of the prior steps and build on continuous improve

Mein article: Cyler Cocurry, Blanderds
The International Cysercation of Standerds (IEO) is an international standards organization regarded as a comprehen of rulinoid standards institution from IET countiles, coolinated through a secretarial in Genera. Surfaceland (ISO) is the vorific agreed covering or international standards institution from IET countiles, coolinated through a secretarial in Genera. Surfaceland (ISO) is the vorific agreed covering or international standards in Core, with ISO (ISO) IEEE (IEEE) international secretarial international i

(FPS). The Internel Society is a professional membership society with more than 100 organizations and over 20,000 individual members in over 100 countries. It is provides sedenthip in addressing issues that control the future of the internet and it is the organizational home for the groups responsible for internet interactular advantages, clouding the Internet Engineering Task Force (EFF) and the Internet Activation. Book or (ABS) The ISOC hosts the Requests for Comments (IFFCs) which includes the Official Internet Protocol Standards and the IFFC-2196 Site Society Handbook.

The information Security Forum (ISF) is a global monoproft organization of several hundred leading organizations in financial services, manufacturing, telecommunications, consumer goods, government, and other areas. It underfates research into information security practices and offers advice in its bilancial Standard or Good Practice and model and advice in the comments.

The Institute of Information Security Professionals (IIISP) is an independent, non-portit body governed by its members, with the principal objective of advancing the professionalism of Information security practices and therety the professionalism of the industry as whole. The institute developed the IIISP Staffs Framework. This Stammouth describes the range of competencies expected of information security and information assurance professionals in the effective performance of their roles. It was developed through to calaboration between both private and public sector organizations, world-renormed acceleration, and executly leadeds [192].

Business continuity Laws and regulati Culture

Business continuity Culture See also References >Further readin

External links

External links

Business continuity Laws and regulations Culture Sources of standards See also References >Further reading External links

The German Federal Office for Information Security (in German Burdesamt for Scherhell in der Informationsschrink (ISO)) ESI-Standards 100–10 100-4 are a set of recommendations including "inethods processes, procedures, approaches and measures relating to Information southy." IPIN The ESI-Standard 100,2 To Comprise the Nethodology describes how Information security management on be implemented and operated. The standard includes a very specific paids, the IT Baseline Protection Catalogy (also from an IT-Grandschatz Catalogy), Before 2005, the catalogs were formerly known as "IT-Standards Catalogy, Its formation (IT-Catalogy), and an acceleration of Scanner Instandards (IT-Catalogy), and an acceleration of Scanner Instandard (IT-Catalogy), The acceleration of Scanner Instandard (IT-Catalogy), The IT-Grandschatz 2015 over 4-60 pages with the inflootaction and catalogy. The IT-Grandschatz approach is adjusted to the ISO/IEC 2016/Crisiny.

### See also [edit]

- Backup
   Capability-based security
   Computer security (cybersecurity)

- Data breach
   Data-centric security
   Enterprise information security architecture
- Identity-based security
- Information infrastructure
- Information security audit
- Information security indicators
- Information security management
   Information security standards Information technology
- Information technology security audit
- IT risk
- ITIL security management References [odt]
- Gordon-Loeb model for cyber security investments

- Kill chain
   List of computer security certifications
   Mobile security
   Network Security Services
   Privacy engineering
   Privacy engineering
   Privacy software

- Privacy-enhancing tec
   Security bug
- Security convergence
- Security information management
- Security level management
   Security of Information Act
- Security service (telecommu
- Single sign-on
   Verification and validation

- \*\*Control Code Section | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00

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